

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((laser laser) and information near2 modulat\$3 and hollow near3 optic\$2 near2 waveguide and (silicon near2 insulator soi)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/05/09 08:23
L2	0	((sens\$3 detect\$3 photo near2 (detect diode)) and hollow near3 optic\$2 near2 waveguide and (fiber fibre) and (voa variable near2 optic \$2 near2 attentuat\$4) and (silicon near2 insulator soi)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/05/09 08:26
L3	0	(information near2 modulat \$3 and hollow near3 optic\$2 near2 waveguide and (fiber fibre) and (eo near2 modulat \$3 electro near2 optic near2 modulat\$3) and (silicon near2 insulator soi)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/05/09 08:28
S1	1	"10565152"	US-PGPUB; USPAT	OR	ON	2007/03/01 12:17
S2	3271	385/14.ccls.	US-PGPUB; USPAT	OR	ON	2007/02/27 15:30
S3	14	385/14.ccls. and laser same (hollow wholly hole) with core same substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 15:41
S4	275	(laser same (hollow wholly hole) with core same substrate) not S3	US-PGPUB; USPAT	OR	ON	2007/02/27 15:42
S5	108	(laser same (hollow wholly hole) near3 core same substrate) not S3	US-PGPUB; USPAT	OR	ON	2007/02/27 15:54
S6	705	hollow near3 (core waveguide) same substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 15:55
S7	103	hollow near3 (core optical adj waveguide) same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 15:59
S8	7	hollow near3 (optical adj waveguide) same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 16:09
S9	3	"5525190".pn. "5473721".pn. "6090636".pn.	US-PGPUB; USPAT	OR	ON	2007/02/28 10:12

S10	115	(lite light) adj pipe same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 16:27
S11	15	(lite light) adj pipe same form\$3 near5 substrate same (laser lazer)	US-PGPUB; USPAT	OR	ON	2007/02/27 16:14
S13	3	hollow adj (lite light) adj pipe same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/28 08:54
S14	195	(lite light optic\$2) adj channel same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 16:29
S15	147	(lite light optic\$2) adj channel same form\$3 near5 substrate and laser	US-PGPUB; USPAT	OR	ON	2007/02/28 07:46
S17	50	(lite light optic\$2) adj channel same form\$3 near5 substrate and laser same modulat\$4	US-PGPUB; USPAT	OR	ON	2007/02/28 07:46
S18	8	"385".clas. and hollow adj core same (embed\$3 form\$4) same substrate and (substrate same laser)	US-PGPUB; USPAT	OR	ON	2007/02/28 09:00
S19	1	(hollow adj waveguide adj integrated adj optics howio)	US-PGPUB; USPAT	OR	ON	2007/02/28 10:13
S20	1	"5410625".pn.	US-PGPUB; USPAT	OR	ON	2007/02/28 14:43
S21	5	"2003000331"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:49
S22	3	"9942879"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:47
S23	4	"03065091"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 15:02
S24	4	"2003065091"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:46

S26	5	"2003000330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:49
S27	0	"GB2003000330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:53
S28	0	"09622684"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:54
S29	1	"10502847"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 15:03
S30	2	"20050089262"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 15:38
S31	4	"02019693"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 16:09
S32	1	"2002GB-02019693"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 16:10
S33	0	"0201969.3"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/01 08:09
S34	866	isolat\$ same laser adj source	US-PGPUB; USPAT	OR	ON	2007/03/01 13:00
S35	81	isolat\$ same laser adj source same substrate	US-PGPUB; USPAT	OR	ON	2007/03/01 13:02

S36	10	isolat\$ same reflect\$4 same laser adj source same substrate	US-PGPUB; USPAT	OR	ON	2007/03/01 13:02
S37	105	"385".clas. and plurality near3 detectors same plurality near3 (fiber fibre)	US-PGPUB; USPAT	OR	ON	2007/03/02 15:37
S38	49	("385".clas. and plurality near3 detectors same plurality near3 (fiber fibre)) and @ay< "2000"	US-PGPUB; USPAT	OR	ON	2007/03/02 15:39
S39	1	"5473721".pn.	US-PGPUB; USPAT	OR	ON	2007/11/19 10:49
S40	37	("4199698"   "4639074"   "4701008"   "4725114").PN. OR ("4896930").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 11:17
S41	1	"5525190".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 12:33
S42	496	optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:20
S43	13	385/124.ccls. and optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 12:57
S44	64	385/125.ccls. and optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 13:17
S45	12	385/15.ccls. and optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 13:17
S46	29	("4878991"   "4883743"   "5111278"   "5192716"   "5422513").PN. OR ("5737458").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 13:19
S47	24	("356".clas. "385.clas") and waveguide near3 hollow and laser and optic\$2 near3 (fiber fibre) near5 (connect \$3 coupl\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 14:25
S48	50	optic\$2 near3 waveguide and waveguide near3 hollow and laser near5 substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 14:28
S49	1	"5917596".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 14:28
S50	1	"10565152"	US-PGPUB; USPAT	OR	ON	2007/11/19 14:53

S51	118	optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser near5 semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:20
S52	111	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:23
S53	72	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:24
S54	0	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor with monolithic and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:25
S55	13	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor with substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 07:37
S56	6	optic\$2 near3 waveguide and (light lite) adj pipe and laser near5 semiconductor with substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:07
S57	1	"10565152"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 07:49
S58	25	"5525190"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 07:49
S59	90	(hollow near3 waveguide (light lite) adj pipe) and laser near5 semiconductor and semiconductor\$3 near5 substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:31
S60	20	(hollow near3 waveguide) and laser near3 semiconductor and semiconductor\$3 near3 substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:34
S61	3	(hollow near3 waveguide) and laser near3 semiconductor and semiconductor\$3 near3 substrate and (silicon adj on adj insulator SOI) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:37

S62	6	(hollow near3 waveguide) and semiconductor\$3 near3 substrate and (silicon adj on adj insulator SOI) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:40
S63	3	((lite adj pipe) hollow near3 waveguide) and semiconductor\$3 near3 (laser laser) and semiconductor\$3 near3 substrate and (silicon adj on adj insulator SOI) and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:47
S64	19	((lite adj pipe) hollow near3 waveguide) and semiconductor\$3 near3 (laser laser) and semiconductor\$3 near3 substrate and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:52
S65	131	((lite adj pipe) hollow near3 waveguide tub\$4 near3 optic\$2) and semiconductor\$3 near3 (laser laser) and semiconductor\$3 near3 substrate and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:00
S66	112	S65 not (S64 S63 S62 S61 S60)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:58
S67	112	(tub\$4 near3 optic\$2) and semiconductor\$3 near3 (laser laser) and semiconductor\$3 near3 substrate and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:02
S68	79	(laser laser) near5 semiconductor\$3 and semiconductor\$3 near3 substrate and optic\$2 near3 (fiber fibre) and ((lite light) adj pipe waveguide near3 (hollow tub\$4)) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:19
S69	122	"385".clas. and (laser laser) and substrate and optic\$2 near3 (fiber fibre) and waveguide near3 (hollow tub\$4) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:43
S70	114	S69 not S68	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:43

S71	28	"385".clas. and (lazer laser) and substrate near7 semiconductor and optic\$2 near3 (fiber fibre) and (waveguide near5 (hollow tub \$4) hollow near3 (lite light) adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:20
S72	69	(lazer laser) and substrate near7 semiconductor and optic\$2 near3 (fiber fibre) and (waveguide near5 (hollow tub\$4) hollow near3 (lite light) adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:36
S73	41	S72 not S71	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:20
S74	216	(lazer laser) and substrate near7 waveguide near5 (hollow tub\$4) hollow near3 ((lite light) adj pipe) and optic\$2 near3 (fiber fibre) and (waveguide near5 (hollow tub\$4) hollow near3 (lite light) adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:38
S75	78	(lazer laser) and substrate near7 waveguide and waveguide near5 hollow and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:19
S76	49	(lazer laser) and substrate near7 waveguide and waveguide near5 capillary and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:56
S77	44	S76 not S75	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:21
S78	1	"20040091211"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:21
S79	186	(lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coup\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 12:44
S80	153	S79 not (S75 S76)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:57
S81	1	"5515464".pn.	US-PGPUB; USPAT	OR	ON	2007/11/20 12:11

S82	69	(lazer laser) and waveguide near2 hollow and (modulat\$3 near (signal light lite source) ((electro adj optic) near3 modulat\$3)) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 12:54
S83	35	(lazer laser) and waveguide near2 hollow and substrate and (modulat\$3 near (signal light lite source) ((electro adj optic) near3 modulat\$3)) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 12:55
S84	1	"10565152"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:58
S85	187	(lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:18
S86	187	(lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:21
S87	54	(plurality multiple) near4 (lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:28
S88	213	(plurality multiple) near4 detector and ((light adj pipe) waveguide near4 hollow) and optic\$2 near3 (fiber fibre) and substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:38
S89	21	(plurality multiple) near4 detector and ((light adj pipe) waveguide near4 hollow) and optic\$2 near3 (fiber fibre) and substrate and (demux demultiplex\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:42
S90	3	(plurality multiple) near4 detector and ((light adj pipe) waveguide near4 hollow) same substrate and optic\$2 near3 (fiber fibre) and (demux demultiplex\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:48



S92	10	(demux demultiplex\$3) same (light adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:55
S93	1	(demux demultiplex\$3) same (hollow adj waveguide hollow adj core) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:57
S94	420	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow adj waveguide hollow adj core) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:01
S95	88	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow adj waveguide hollow adj core) and substrate with (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:02
S96	100	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:05
S97	91	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and (plurality multiple) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:13
S98	4	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and (plurality multiple) and (demux demultiplex\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:14

S99	41	laser and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and (fibre fiber) with (plurality multiple) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:22
S100	1	laser and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and electro adj optic\$2 near2 modul\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:26
S101	1	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate with (fiber fibre) and electro adj optic\$2 near2 modul\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:31
S102	2	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and electro adj optic\$2 near2 modul\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:32
S103	175	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:36
S105	4	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and electro near3 optic\$2 near3 modul\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:39
S106	7	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and electro near3 optic\$2 near3 modul\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:41

S107	6	laser and substrate same (((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and electro near3 optic\$2 near3 modulat\$3 and (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:51
S108	142	laser and substrate same (((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 16:14
S109	64	laser and substrate same (((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate near5 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 16:15
S110	33	laser and substrate same (hollow near3 (guide waveguide) hollow near3 core) and substrate near5 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 16:15
S111	1505	(lens grin) near3 (fiber fibre) same (channel hollow near3 waveguide hollow adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:53
S112	17	(lens grin) near3 (fiber fibre) same (hollow near3 waveguide hollow adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:53
S113	1436	(lens grin) near3 (fiber fibre) with substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:55
S114	24	(lens grin) near3 (fiber fibre) with substrate with channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:55

S115	50	(grin graded adj index) near3 (fiber fibre) near7 substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 09:00
S116	66	(grin graded adj index) near2 (fiber fibre) near5 (advantage\$4 benefit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 09:06
S117	50	(grin graded adj index) near2 (fiber fibre) near5 (advantage\$4 benefit)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:07
S118	57	(grin graded adj index) near2 (fiber fibre) near5 dispersion	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:10
S119	25	laser near3 semiconductor and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:15
S120	27	laser near3 semiconductor and substrate same ((lite light) adj pipe hollow near3 (guide waveguide channel) hollow near3 core) and substrate same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:17
S121	127	"39843"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 10:39
S122	1	"3984332".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 10:39
S123	137	semiconductor adj laser near5 (tuneable adjustable)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 11:14
S124	17	semiconductor adj laser near5 (tuneable adjustable) near3 wavelength	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 11:14
S126	3	"3984332".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 11:24
S128	188	taper\$3 near4 hollow near4 (channel waveguide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 11:36

S129	15	taper\$3 near4 hollow near4 (channel waveguide core) same substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 11:36
S132	18	hollow near4 (core waveguide channel) same laser and (soi silicon adj on adj insulator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 14:42
S133	2	"5515464".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:12
S134	2536	soi with buried adj oxide adj layer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:18
S135	60	soi with buried adj oxide adj layer same light	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:18
S136	6	soi with buried adj oxide adj layer same light near3 confin \$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:19
S137	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2009/03/12 12:16
S138	1	"5525190".pn.	US-PGPUB; USPAT	OR	ON	2009/03/12 13:12
S139	1	"5515464".pn.	US-PGPUB; USPAT	OR	ON	2009/03/12 14:05
S140	618	hollow near2 waveguide same fiber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:54

S141	342	hollow near2 waveguide same fiber and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:54
S142	187	hollow near2 waveguide near7 fiber and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:54
S143	1	hollow near2 waveguide near7 fiber near2 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:55
S144	0	hollow near2 waveguide near5 substrate same fiber near2 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:55
S145	9	(channel hollow) near2 waveguide near5 substrate same fiber near2 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:56
S146	6	hollow near2 waveguide same fiber near3 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:57
S147	28	("5015059"   "5046808"   "5071215"   "5097524"   "5280550"   "5287424"   "5323476").PN. OR ("5515464").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 08:58
S148	33	("20020102059"   "20020191907"   "20030035613"   "20030090776"   "4068920"   "4453803"   "4973127"   "5195154"   "5279354"   "5379354"   "5410625"   "5428698"   "5473721"   "5475776"   "5515464"   "5562838"   "5611008"   "5632908"   "5675603"   "5737458"   "5917596"   "6002514"   "6090636"   "6137941"   "6163643"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 09:10

		"6198857"   "6219470"   "6315462"   "6340605"   "6501869"   "6640021"   "6819825"   "6839478").FN. OR ("7428351").URPN.				
S149	1	"5525190".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 09:15
S150	3	hollow near2 waveguide same fiber near3 secur\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 09:27
S151	1	"5926599".pn.	US-PGPUB; USPAT	OR	ON	2009/03/13 10:17
S152	44	("4209229"   "4725110"   "4778242"   "4830448"   "4865414"   "5042898"   "5080962"   "5243680"   "5246890"   "5281560"   "5367589"   "5426714"   "5470804"   "5500917"   "5516733"   "5602949"   "5682453"   "5694503"   "5721802"   "5757540").FN. OR ("5926599").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 10:20
S153	362	v near2 groove near6 fiber same epoxy	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:00
S154	40	v near2 groove near6 fiber near2 end same epoxy	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:00
S155	40	v near2 groove near6 fiber near2 end same epoxy and @ad< + 20030728	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:06
S156	22	v near2 groove near6 fiber near2 end same epoxy and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:06
S157	12	v near2 groove same fiber same epoxy near2 match\$3 and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:14
S158	1	"10565152"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:20
S159	629	v near2 groove same fiber same lens and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S160	377	v near2 groove same fiber near5 lens and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S161	146	v near2 groove near7 fiber near5 lens and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27

S163	70	v near2 groove near7 fiber near5 lens same substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S164	18	v near2 groove same grin near2 fiber and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:32
S165	2	semiconductor near2 substrate same grin near2 fiber and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:34
S166	159	transceiver same laser and lidar	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:34
S167	0	transceiver same laser and lidar and transmitter near5 receiver near6 substrate	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:34
S168	0	laser and lidar and transmitter near5 receiver near6 substrate	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:34
S169	3	transceiver near2 package same laser and lidar	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:35
S170	6	transceiver near2 module same laser and lidar	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:35
S171	54	transceiver same laser and lidar and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:36
S172	1	"5917596".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:58
S173	380	taper\$3 near4 waveguide and waveguide near4 hollow	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:22
S174	67	taper\$3 near4 hollow near4 waveguide	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:22
S175	26	taper\$3 near4 hollow near4 waveguide and optic\$2 near2 waveguide	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:23
S176	1	"4563539".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:28
S177	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2009/07/16 14:35
S178	1	"6934448".pn.	US-PGPUB; USPAT	OR	ON	2009/10/09 14:01
S179	1	"6934448".pn.	US-PGPUB; USPAT	OR	ON	2009/10/09 15:42
S180	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2009/11/10 16:13
S181	10728	semiconductor adj (laser lazer) same wavelength and semiconductor adj (laser lazer) same (power watt\$5 " w ")	US-PGPUB; USPAT	OR	ON	2009/11/10 16:16
S182	3504	semiconductor adj (laser lazer) same high adj power	US-PGPUB; USPAT	OR	ON	2009/11/10 16:17



S184	153	semiconductor adj (laser lazer) same high adj power and doppler	US-PGPUB; USPAT	OR	ON	2009/11/10 16:17
S185	119	semiconductor adj (laser lazer) same high adj power and doppler and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:18
S186	0	semiconductor adj (laser lazer) same high adj power and 1060nm and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:20
S187	0	semiconductor adj (laser lazer) same 1060nm and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:20
S188	129	semiconductor adj (laser lazer) same "1060" and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:20
S189	69	semiconductor adj (laser lazer) same "1060" and (watt \$4 * w") and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:21
S190	13	semiconductor adj (laser lazer) same "1060" and (watt \$4) and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:24
S191	1186	semiconductor adj (laser lazer) same tunable and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:26
S192	31	semiconductor adj (laser lazer) same tunable and doppler and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:26
S193	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2010/03/08 13:32
S195	0	(laser and modulat\$3 same information and hollow same waveguide same optic\$2). clm.	US-PGPUB; USPAT	OR	ON	2010/03/08 13:49
S196	0	(laser and modulat\$3 same information and hollow same waveguide same optic\$2). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/08 13:49
S197	2	"5917596".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 10:39

S198	2	"6934448".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 11:48
S199	8	((laser laser) and hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct \$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 11:58
S200	9	(hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct \$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 12:29
S203	3	("5195154"   "6456766").PN. OR ("6944377").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 13:01
S205	19349	((laser laser) near2 diode vcsel (vertical adj cavity adj surface adj emitting adj (laser laser)) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 13:11
S206	1	((((laser laser) near2 diode or vcsel or vertical adj cavity adj surface adj emitting adj (laser laser) or (laser laser)) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:23
S207	1	((laser laser) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 13:25
S208	1	((laser laser) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:25
S209	1	((laser laser) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:25

S210	140	"385".clas. and hollow near5 waveguide and (attenuat\$3 modul\$3) and laser and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:50
S211	140	"385".clas. and hollow near5 waveguide and (attenuat\$3 modul\$3) and (vcsl laser) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:51
S212	60	"385".clas. and hollow near5 waveguide and (attenuat\$3 modul\$3) and (vcsl laser) and silicon and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:51
S213	3	(hollow near5 waveguide and modul\$3 and (vcsl laser) and silicon).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:59
S214	5	(hollow near5 waveguide and modul\$3 and (vcsl laser) and electro near2 optic).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 15:13
S215	62	"385".clas. and hollow near5 (channel waveguide) and (attenuat\$3 modul\$3) and (vcsl laser) and silicon and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/17 08:16
S216	159	"385".clas. and hollow near5 (channel waveguide) and (attenuat\$3 modul\$3) and (vcsl laser) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/17 08:24
S217	93	"385".clas. and hollow near5 (channel waveguide) and (attenuat\$3 modul\$3) and (vcsl laser) and (semiconduct\$3 silicon) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/17 09:16
S218	1	"5428698".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/24 09:14
S219	1	"5410625".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/24 09:18
S220	2	"11890879"	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/31 11:44

S221	8	"349".clas. and laser adj jet	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/31 12:16
S222	82	"347".clas. and laser adj jet	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/31 12:16
S223	3570	347/19.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/31 12:29
S224	3820	347/19.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/31 12:29
S225	1	"11829965"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/31 14:37
S226	1	"11893315"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/31 15:02
S227	6	(monie-mark.in. jenkins-richard.in. moquillan-james.in.) and (silicon near3 insulat\$3 soi)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/21 10:26
S228	57	("385".clas. "362".clas. "359".clas.) and (silicon near3 insulat\$3 soi) and ((lite light) near2 (pipe tube) (air hollow) near2 (core waveguide)) and (voa variable near4 attenuat\$3 modulat\$4) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/21 11:08
S229	1	"10565152"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/21 12:55
S230	1	"7072542".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2011/04/22 11:08
S231	1	"10565152"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 11:23

S232	3	"20070165980"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 11:37
S233	2	"6839478".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:01
S234	3	"20040240822"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:19
S235	1	"20040240822"	US-PGPUB	OR	ON	2011/04/22 12:19
S236	0	"6668103".pn.	US-PGPUB	OR	ON	2011/04/22 12:30
S237	2	"6668103".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:30
S238	2	"6534248".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:35
S239	474	"385".clas. and (soi silicon near2 insulator) same etch\$3 same waveguide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:51
S240	158	"385".clas. and (soi silicon near2 insulator) near7 etch \$3 same waveguide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:51
S241	94	"385".clas. and (soi silicon near2 insulator) near7 etch \$3 with waveguide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:51

S242	30	"385".clas. and (soi silicon near2 insulator) near7 etch \$3 with waveguide and @ad<="20030728"	US-PGRUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/04/22 12:52
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**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	0	((laser lazer) and information near2 modulat \$3 and hollow near3 optic \$2 near2 waveguide and (silicon near2 insulator soi)).clm.	USPAT; UPAD	OR	ON	2011/05/09 08:28
L5	0	((sens\$3 detect\$3 photo near2 (detect diode)) and hollow near3 optic\$2 near2 waveguide and (fiber fibre) and (voa variable near2 optic\$2 near2 attentuat\$4) and (silicon near2 insulator soi)).clm.	USPAT; UPAD	OR	ON	2011/05/09 08:28
L6	0	(information near2 modulat \$3 and hollow near3 optic \$2 near2 waveguide and (fiber fibre) and (eo near2 modulat\$3 electro near2 optic near2 modulat\$3) and (silicon near2 insulator soi)).clm.	USPAT; UPAD	OR	ON	2011/05/09 08:28
S201	3	((laser lazer) and hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct\$3).clm.	USPAT; UPAD	OR	ON	2010/08/02 12:28
S202	3	(hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct\$3).clm.	USPAT; UPAD	OR	ON	2010/08/02 12:29

**5/ 9/ 2011 8:29:53 AM**

C:\Documents and Settings\csmith2\My Documents\EAST\Workspaces\10565152 (optical transmitter and receiver apparatus incorporating hollow waveguides).wsp